

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: W. Dall'Acqua et al.

Serial No.: 10/020.354

Group Art Unit: 1646

Filed: December 12, 2001

Examiner: To be assigned.

For: MOLECULES WITH EXTENDED
HALF-LIVES, COMPOSITIONS AND
USES THEREOF

Attorney Docket No.: 10271-027

New York, NY
September 26, 2002



INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 and § 1.97 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of any claim of the application, Attorneys for Applicants hereby direct the Examiner's attention to the references listed on the attached revised form PTO 1449 entitled "List of References Cited by Applicant." Legible copies of references AA-DA are submitted herewith.

While not to be construed as indicating that the Examiner should not fully consider all the listed references, the Examiner's attention is particularly directed to the following references:

AN	Ward et al., WO 93/22332
AO	Presta et al., WO 96/32478
AP	Ward, WO 97/34631
AQ	Junghans, WO 97/43316
AR	Israel et al., WO 98/23289
AT	Gallo et al., WO 00/09560
AX	Firan et al., 2001, <i>Intern. Immunol.</i> 13:993-1002
AY	Ghetie et al., 2000, <i>Annual Rev. Immunol.</i> 18:739-766
AZ	Ghetie et al., 1996, <i>Eur. J. Immunol.</i> 26:690-696
BA	Ghetie et al., 1997, <i>Nature Biotech.</i> 15(7):637-640

BJ	Kim et al., 1994, <i>Scandinavian J. Immunol.</i> 40(4):457-465
BK	Kim et al., 1994, <i>Scandinavian J. Immunol.</i> 40(4):457-465
BL	Kim et al., 1994, <i>Eur. J. Immunol.</i> 24:542-548
BM	Kim et al., 1994, <i>Eur. J. Immunol.</i> 24:2429-2439
BN	Kim et al., 1994, <i>FASEB J.</i> 8:pA467
BO	Kim et al., 1995, <i>9th International Congress of Immunol.</i> , p.469
BS	Medesan et al., 1996, <i>Eur. J. Immunol.</i> 26:2533-2536
BT	Medesan et al., 1997, <i>J. Immunol.</i> 158:2211-2217
BU	Medesan et al., 1998, <i>Eur. J. Immunol.</i> 28(7):2092-2100
BW	Popov et al., 1996, <i>Mol. Immunol.</i> 33:521-530
BZ	Shields et al., 2001, <i>J. Biol. Chem.</i> 276:6591-6604
CG	Ward and Ghetie, 1995, <i>Ther. Immunol.</i> 2:77-94
CH	West and Bjorkman, 2000, <i>Biochemistry</i> 39:9698-9708
CS	Raghavan et al., 1995, <i>Biochemistry</i> 34(45):14649-57
CZ	Ward et al., 2000, U.S. Patent 6,165,745
DA	Ward, 2001, U.S. Patent 6,277,375

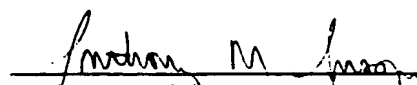
Identification of the listed references is not to be construed an admission of Applicants or Attorneys for Applicants that such references are available as "prior art" against the subject application. Consequently, Applicants respectfully decline to use form PTO-1449, since this form identifies all of the references cited therein as "Prior Art." As an alternative, Applicants submit herewith a "revised form PTO 1449" entitled "List of References Cited" instead of "List of Prior Art Cited."

Applicants respectfully request that the Examiner review the listed references and that the references be made of record in the file history of the application.

Pursuant to 37 C.F.R. § 1.97(b), since this information disclosure statement is being filed before the mailing date of a first Office Action on the merits, no fee is due in connection herewith. However, should the Patent Office determine otherwise, please charge the required fee to Pennie & Edmonds LLP deposit account no. 16-1150; a duplicate of this sheet is enclosed.

Respectfully submitted,

Date: September 26, 2002


 35,203
 Anthony M. Insogna (Reg. No.)
 PENNIE & EDMONDS LLP
 1155 Avenue of Americas
 New York NY 10036-2720
 (212) 790 - 9090

Enclosures

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

ATTY DOCKET NO

10271-027-999

APPLICATION NO

10/020,354

APPLICANT

Dall'Acqua et al.

FILING DATE

December: 12, 2001

GROUP

1646

U.S. PATENT DOCUMENTS

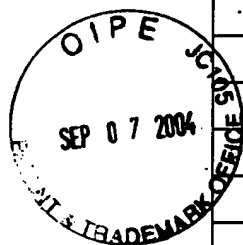
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,703,039	10/27/87	Hawiger et al.			
	AB	5,739,277	4/14/98	Presta et al.			
	AC	5,747,035	5/5/98	Presta et al.			
	AD	5,824,307	10/20/98	Johnson			
	AE	5,869,046	2/9/99	Presta et al.			
	AF	09/724,396		Young et al.			11/28/00
	AG	09/724,531		Young et al.			11/28/00
	AH	09/996,265		Young et al.			11/28/01
	AI	09/996,288		Young et al.			11/28/01
	CZ	6,165,745	12/26/00	Ward et al.			
	DA	6,277,375	8/21/01	Ward			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AJ	EP 0 327 378	12/11/96	EPC				
	AK	EP 0 368 684	5/16/90	EPC				
	AL	WO 89/07142	8/10/89	PCT				
	AM	WO 91/14438	10/3/91	PCT				
	AN	WO 93/22332	11/11/93	PCT				
	AO	WO 96/32478	10/17/96	PCT				
	AP	WO 97/34631	9/25/97	PCT				
	AQ	WO 97/43316	11/20/97	PCT				
	AR	WO 98/23289	6/4/98	PCT				
	AS	WO 99/43713	9/2/99	PCT				
	AT	WO 00/09560	2/24/00	PCT				

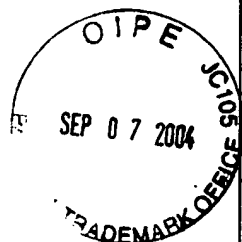
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	Borvak et al., 1998, <i>Intern. Immunol.</i> 10(9):1289-1298
	AV	Cianga et al., 1999, <i>Eur. J. Immunol.</i> 29(8):2515-2523
	AW	Fields et al., 1996, <i>Immunotechnology</i> 2(4):270
	AX	Firan et al., 2001, <i>Intern. Immunol.</i> 13:993-1002
	AY	Ghetie et al., 2000, <i>Annual Rev. Immunol.</i> 18:739-766
	AZ	Ghetie et al., 1996, <i>Eur. J. Immunol.</i> 26:690-696
	BA	Ghetie et al., 1997, <i>Nature Biotech.</i> 15(7):637-640



	BB	Ho et al., 1989, <i>Gene</i> 15:51-59
	BC	Israel et al., 1996, <i>Immunol.</i> 89:573-578
	BD	Johnson et al., 1997, <i>J. Infectious Disease</i> 176:1215-1224
	BE	Junghans, 1997, <i>Immunologic Research</i> 16(1):29-57
	BF	Junghans et al., 1996, <i>Proc. Natl. Acad. Sci. USA</i> 93:5512-5516
	BG	Junghans, 1997, <i>Blood</i> 90(10):3815-3818
	BH	Junghans, 1997, <i>Trends in Biotechnology</i> 5(15):155
	BI	Kabat et al., 1991, Sequences of Proteins of Immunological Interest, U.S. Public Health Service, National Institutes of Health
	BJ	Kim et al., 1994, <i>Scandinavian J. Immunol.</i> 40(4):457-465
	BK	Kim et al., 1995, <i>Mol. Immunol.</i> 32(7):467-475
	BL	Kim et al., 1994, <i>Eur. J. Immunol.</i> 24:542-548
	BM	Kim et al., 1994, <i>Eur. J. Immunol.</i> 24:2429-2439
	BN	Kim et al., 1994, <i>FASEB J.</i> 8:pA467
	BO	Kim et al., 1995, <i>9th International Congress of Immunol.</i> , p.469
	BP	Kunkel et al., 1987, <i>Methods Enzymol.</i> 154:367-382
	BQ	Li et al., 1997, <i>J. Mol. Biol.</i> 269(3):385-394
	BR	Martin and Bjorkman, 1999, <i>Biochemistry</i> 38:12639-12647
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	BT	Medesan et al., 1997, <i>J. Immunol.</i> 158:2211-2217
	BU	Medesan et al., 1998, <i>Eur. J. Immunol.</i> 28(7):2092-2100
	BV	Popov et al., 1996, <i>Mol. Immunol.</i> 33:493-502
	BW	Popov et al., 1996, <i>Mol. Immunol.</i> 33:521-530
	BX	Sanger et al., 1977, <i>Proc. Natl. Acad. Sci. USA</i> 74:5463-5467
	BY	Schuck, et al., 1999, <i>Mol. Immunol.</i> 36:1117-1125
	BZ	Shields et al., 2001, <i>J. Biol. Chem.</i> 276:6591-6604
	CA	Story et al., 1994, <i>J. Exp. Med.</i> 180:2377-2381
	CB	Thatte et al., 1999, <i>J. Exp. Med.</i> 189(3):509-520
	CC	van der Merwe et al., 1993, <i>EMBO J.</i> 12:4945-4594
	CD	van der Merwe et al., 1994, <i>Biochemistry</i> 33:10149-10160
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	CF	Ward and Qadri, 1997, <i>Current Opinion Immunol.</i> 9(1):97-106
	CG	Ward and Ghetie, 1995, <i>Ther. Immunol.</i> 2:77-94
	CH	West and Bjorkman, 2000, <i>Biochemistry</i> 39:9698-9708
	CI	Ahouse et al. Mouse MHC class I-like Fc receptor encoded outside the MHC. <i>J Immunol.</i> 1993 Dec 1; 151(11):6076-88.
	CJ	Burmeister et al. Crystal structure at 2.2 A resolution of the MHC-related neonatal Fc receptor. <i>Nature.</i> 1994 Nov 24;372(6504):336-43.
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	CM	Cianga et al. Identification and function of neonatal Fc receptor in mammary gland of lactating mice. Eur J Immunol. 1999 Aug;29(8):2515-23.
	CN	Dickinson et al. Bidirectional FcRn-dependent IgG transport in a polarized human intestinal epithelial cell line. J Clin Invest. 1999 Oct;104(7):903-11
	CO	Ghetie et al. Multiple roles for the major histocompatibility complex class I- related receptor FcRn. Annu Rev Immunol. 2000;18:739-66. Review.
	CP	Kristoffersen et al. Co-localization of the neonatal Fc gamma receptor and IgG in human placental term syncytiotrophoblasts. Eur J Immunol. 1996 Jul;26(7):1668-71
	CQ	Martin et al. Characterization of the 2:1 complex between the class I MHC-related Fc receptor and its Fc ligand in solution. Biochemistry. 1999 Sep 28;38(39):12639-47
	CR	Raghavan et al. Investigation of the interaction between the class I MHC-related Fc receptor and its immunoglobulin G ligand. Immunity. 1994 Jul;1(4):303-15
	CS	Raghavan et al. Analysis of the pH dependence of the neonatal Fc receptor/immunoglobulin G interaction using antibody and receptor variants. Biochemistry. 1995 Nov 14;34(45):14649-57
	CT	Rodewald R. pH-dependent binding of immunoglobulins to intestinal cells of the neonatal rat. J Cell Biol. 1976 Nov;71(2):666-9
	CU	Sanchez et al. Stoichiometry of the interaction between the major histocompatibility complex-related Fc receptor and its Fc ligand. Biochemistry. 1999 Jul 20;38(29):9471-6
	CV	Simister et al. An Fc receptor structurally related to MHC class I antigens. Nature. 1989 Jan 12;337(6203):184-7
	CW	Vaughn et al. High-affinity binding of the neonatal Fc receptor to its IgG ligand requires receptor immobilization. Biochemistry. 1997 Aug 5;36(31):9374-80.
	CX	Vaughn et al. Identification of critical IgG binding epitopes on the neonatal Fc receptor. J Mol Biol. 1997 Dec 12;274(4):597-607
	CY	Wallace et al. Studies on the immunoglobulin-G Fc-fragment receptor from neonatal rat small intestine. Biochem J. 1980 Apr 15;188(1):9-16
EXAMINER		DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		